

In the claims:

1. A multi-band radio terminal which includes a plurality of radio units corresponding to each bands and is capable of using said plurality of frequency bands, comprising:

5           a control unit which adds band switching information to frequency information that comes from a host device to designate a frequency contained in said frequency band and transmits the obtained information to said radio unit, wherein

10           said plurality of radio units control ON/OFF according to said band switching information.

2. The multi-band radio terminal as set forth in claim 1, wherein

5           said control unit adds the band switching information to said frequency information and transmits the obtained information to all said radio units.

3. The multi-band radio terminal as set forth in claim 1, wherein

5           said control unit transmits a serial signal with band switching information which designates any of said plurality of frequency bands added to said frequency information to said plurality of radio units, and

              said radio unit determines on ON/OFF based on

said band switching information contained in said serial signal.

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4. The multi-band radio terminal as set forth in claim 3, wherein

said control unit has, in the lump, frequency setting data which correlates said frequency information with a frequency in each band in said plurality of frequency bands, and extracts said frequency setting data corresponding to said frequency information and adds said band switching information to the extracted frequency setting data to transmit the obtained data to said radio unit.

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5. The multi-band radio terminal as set forth in claim 1, including:

a plurality of antennas each corresponding to each of said plurality of radio units, and an antenna switch which switches each of said plurality of antennas, wherein

said antenna switch switches said plurality of antennas in linkage with on/off control of said plurality of radio units.

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6. The multi-band radio terminal as set forth in claim 1, wherein said control unit includes:

a storage unit which stores in the lump,

frequency setting data which correlates said frequency  
5 information with a frequency in each band in said plurality of frequency bands,

a frequency control unit which extracts said frequency setting data corresponding to said frequency information and adds said band switching information to  
10 the extracted frequency setting data, and

a transmitter which converts said frequency setting data with said band switching information added into a serial signal and transmits the obtained signal to said radio unit.

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7. A band switching method of a multi-band radio terminal which includes a plurality of radio units corresponding to each bands and is capable of using said plurality of frequency bands, comprising:

5 a step of a control unit of transmitting band switching information to said radio unit based on frequency information that comes from a host device to designate a frequency contained in said frequency band and,

10 a step of said plurality of radio units of controlling ON/OFF according to said band switching information.

8. The band switching method of a multi-band radio terminal as set forth in claim 7, wherein

the band switching information is added to said  
frequency information and the obtained information is  
5 transmitted to all said radio units.

9. The band switching method of a multi-band radio terminal as set forth in claim 7, wherein  
said control unit transmits a serial signal with  
band switching information which designates any of said  
5 plurality of frequency bands added to said frequency  
information to said plurality of radio units, and  
said radio unit determines on ON/OFF based on  
said band switching information contained in said serial  
signal.

10. The band switching method of a multi-band radio terminal as set forth in claim 9, wherein  
said control unit has, in the lump, frequency  
setting data which correlates said frequency information  
with a frequency in each band in said plurality of  
frequency bands, and extracts said frequency setting  
5 data corresponding to said frequency information and  
adds said band switching information to the extracted  
frequency setting data to transmit the obtained data to  
said radio unit.

11. The band switching method of a multi-band radio terminal as set forth in claim 7, wherein

an antenna switch which switches a plurality of antennas each corresponding to each of said plurality of radio units switches said plurality of antennas in linkage with on/off control of said plurality of radio units.

12. A control program executed on a multi-band radio terminal which includes a plurality of radio units corresponding to each bands and is capable of using said plurality of frequency bands to control switching of a frequency band, comprising:

a function of a control unit of transmitting band switching information to said radio unit based on frequency information that comes from a host device to designate a frequency contained in said frequency band,  
and

a function of said plurality of radio units of controlling ON/OFF according to said band switching information.

13. The control program which controls switching of a frequency band of a multi-band radio terminal as set forth in claim 12, comprising:

a function of transmitting a serial signal with band switching information which designates any of said plurality of frequency bands added to said frequency information to said plurality of radio units, and

10           a function of said radio unit of determining on  
ON/OFF based on said band switching information  
contained in said serial signal.

14.       The control program which controls switching of a  
frequency band of a multi-band radio terminal as set  
forth in claim 13, wherein

5           frequency setting data which correlates said  
frequency information with a frequency in each band in  
said plurality of frequency bands is held in the lump,  
and which further comprises:

10           a function of extracting said frequency setting  
data corresponding to said frequency information and  
adding said band switching information to the extracted  
frequency setting data to transmit the obtained data to  
said radio unit.

15.       The control program which controls switching of a  
frequency band of a multi-band radio terminal as set  
forth in claim 12, wherein

5           an antenna switch which switches a plurality of  
antennas each corresponding to each of said plurality of  
radio units further includes a function of switching  
said plurality of antennas in linkage with on/off  
control of said plurality of radio units.